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9	JUN	1988				

MEMORANDUM FOR:	Chief, Technical Security Staff, OIT	
FROM:		STAT
	Chief, Information Security Group, OS	
SUBJECT:	Electronic Release of Cables	25 X 1
REFERENCE:	OIT-0335-88 (dtd 20 Apr 88) Same Subject	
Security concurr memorandum for e ETECS computer s	no dated 20 April requests formal Office of rence with the parameters outlined in the electronic release of Cable traffic from the system (Electronic Editing and Text Composition in Printing & Photography Division (P&PD).	
system as a comm Mechanisms need	fice has several concerns about using the ETECS munications processor from the P&PD location. to be defined to ensure that only the intended passed from ETECS to the Message Handling	
Facility; that i	integrity of the interface between ETECS and the Facility is maintained; and, that the ADP	
functions of ETE	ECS are logically isolated from the commu-	
nications functi	ions performed in support of the proposed	

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capability.

Some means of achieving the desired capability were discussed with OIT/TSS and OC/CSD including: locating a remote MHF OCR in the ETECS facility; locating a remote ETECS printer co-located with the current OCR installation; and, direct electronic connection from ETECS to the Message Handling Facility. We understand that the Director, Current Production and Analytic Support, prefers the latter alternative. either case a simulation of OCR function would be needed in ETECS. In either of these cases, specific integrity requirements would apply, and are particularly germane in an ADP system which performs both communications and ADP functions.

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4. The attachment outlines the types of integrity constraints on ETECS that we believe would be needed additional to the parameters suggested in your memorandum. This type of installation, or addition to an existing installation, clearly falls within the purview of the Office of Information Technology and the Office of Communications, and we defer to those offices for determination of the full interface control doctrine.

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Atta	achment			· ·	
cc:	Chief, CSG/OIT Chief, OG/OIT CPAS				STAT
!os,	/ISG/PTS/TSD/SAB/JCostantini:bjs/S	-32166 (25 May	L988)!	
	stribution:! !Original - Addressee! !1 - Chief, CSG/OIT! !1 - Chief, OG/OIT!				
-	!1 - CHIE!, OG/OII: !1 - C/SAB/TSD/ISG! !1 - ISG Subject! !1 - ISG Chrono!				STAT

1 - OS Registry

Attachment to Memorandum, Subject: Electronic Release of Cables

1. There must be a written interface control doctrine (ICD) for connection of ADP systems to a communications processor and for implementation of the necessary communications functions in an ADP system. It should include, at least, the following elements:

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- a. Memory techniques such as cyclic redundancy codes, or other error detection techniques to ensure the integrity and isolation (from other ETECS data) of data stored in the memory of ETECS. Sufficient checks should be placed in ETECS to prevent the transmission or manipulation of data that is unable to pass these checks.
- b. Each message or message entity (e.g. file) should have a unique reference number appended or embedded for integrity verification, auditing, and reference while it is stored on disk or in memory in ETECS.
- c. The last record of each message stored on disk and in main memory should be completely padded with null data from the last valid character to the end of the storage associated with the entity.
- d. Data storage areas for messages (buffers, control blocks, etc.) in main memory should be cleared upon completion of use. And should be clear of information prior to being reused.
- e. Verification of correct transfer between ETACS and MHF should be performed for each message block transferred. This can be accomplished using a flow controlled protocol. The use of a pure asynchronous protocol should be avoided.
- 2. Furthermore I recommend that the following additional requirements be added to the list. These are communications processor functions, and OIT, or OC, may not want an ADP system to be involved in these checks. We defer to the Office of Communications and the Office of Information Technology determinations in these matters.
- a. That the ETECS perform message format validation. MHF will perform this function, but it would be better, and more efficient, to not force MHF to handle messages which can be rejected in ETECS.

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- b. That the ETACS perform a block check count at message generation and re-compute (validate) that count prior to transfer to MHF. Again, to save forcing MHF rejection of the message.
- c. That the ETACS compare the transmission release code (TRC) for consistency with the handling caveats and classification contained on the header format lines prior to transfer of the message to MHF.
- d. That addressing files (Plain language or routing indicators) in ETACS, if any, should be protected and managed carefully, and should be validated by ETACS management every time that they are loaded or updated.
- e. That ETECS copy to a journal each message dispatched to MHF. This journal should include the identity of the releaser.